

# **Availability Control on Revenues**

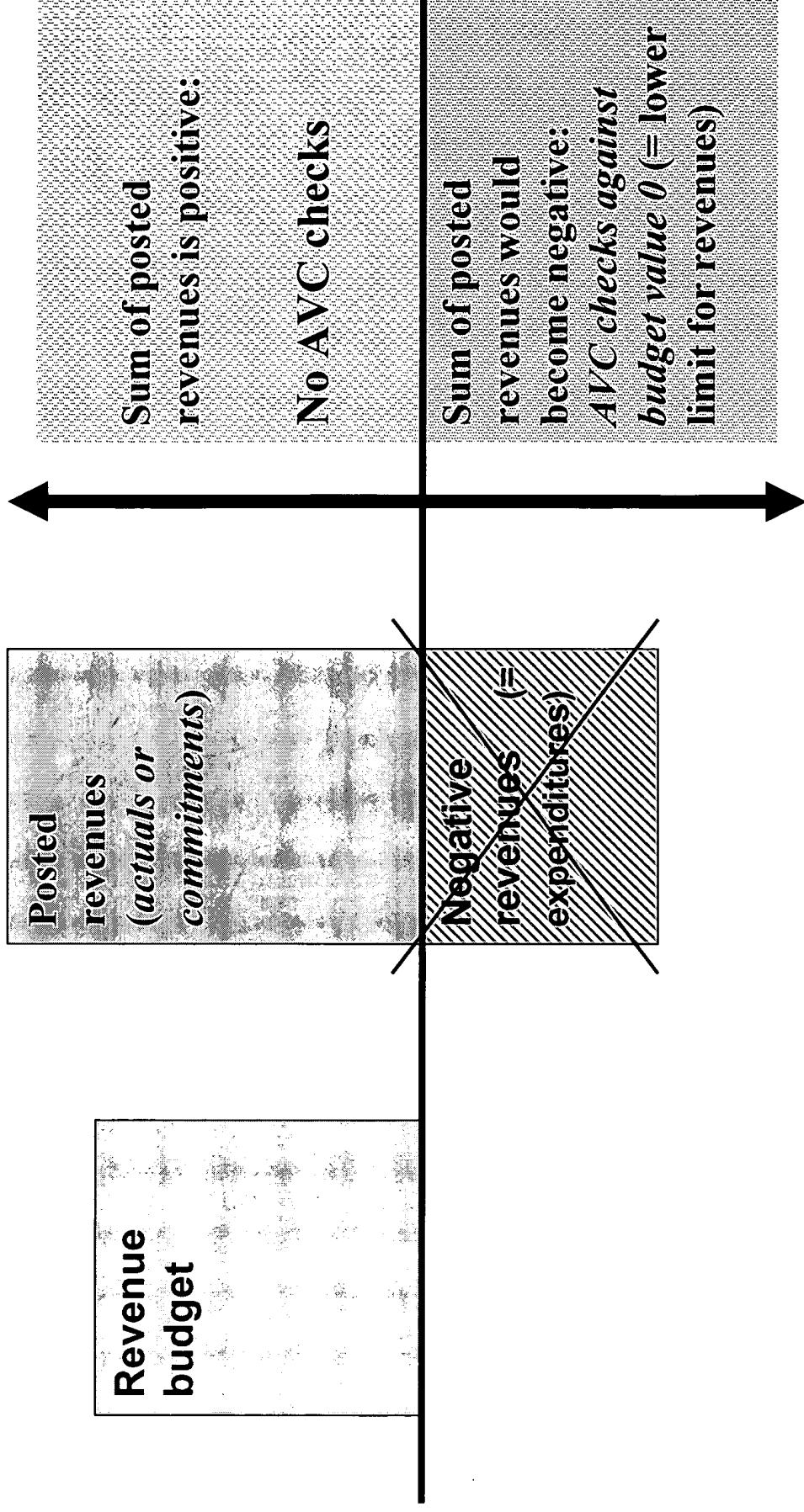
***Solution for EA-PS 2.0 and JFMIP***

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### AVC on revenues: *current view (I)*

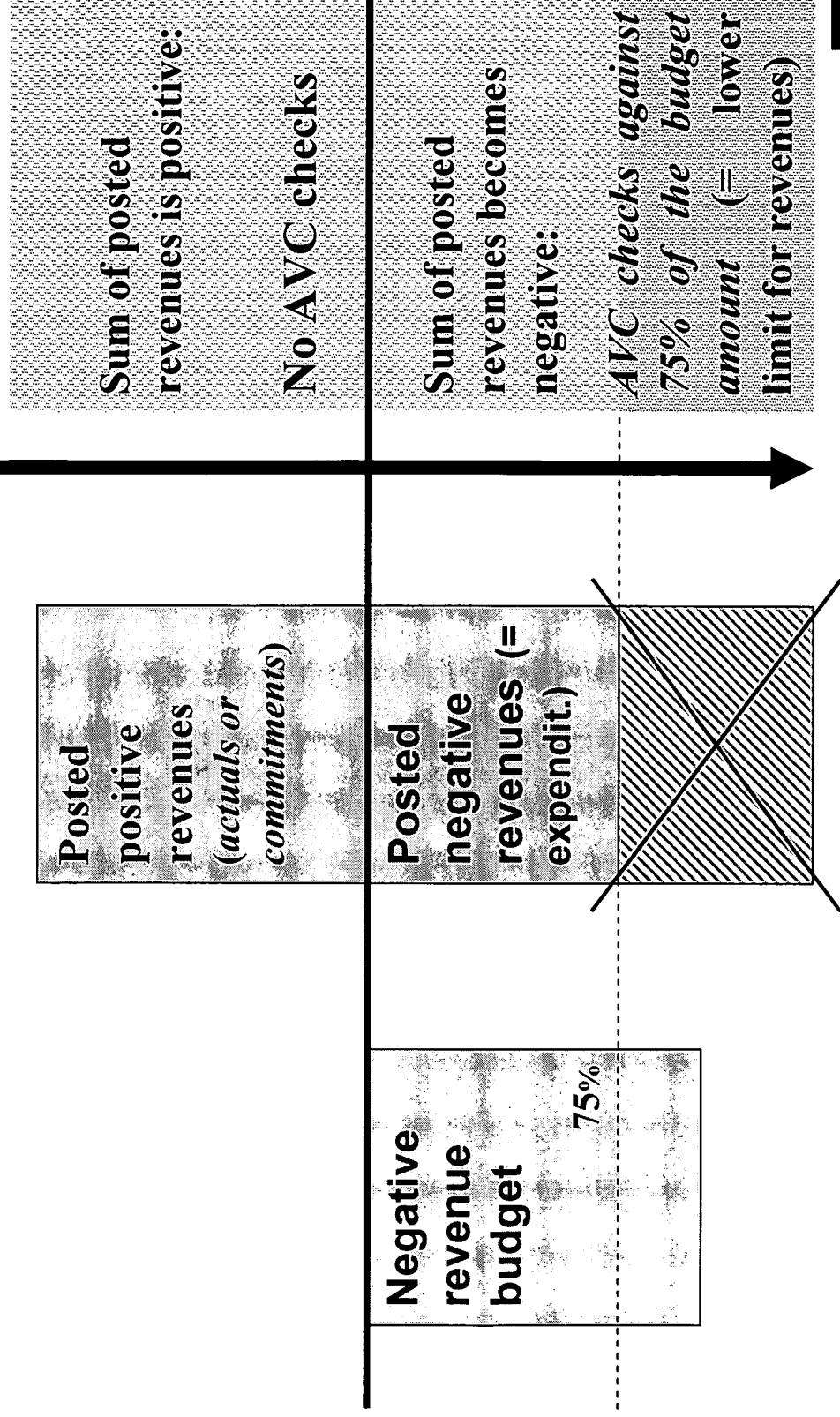
- ❑ Availability control was designed to limit expenditures, but not to limit revenues → an administration is allowed to receive revenues without any upper limit.
- ❑ Consequence: For usual revenue scenarios (without negative revenue budget) AVC only prevents the system from posting expenditures on revenue items

## AVC on revenues: *current view (II)*



## AVC on revenues: *current view (III)*

- ❑ Negative revenue budget with tolerance 75%

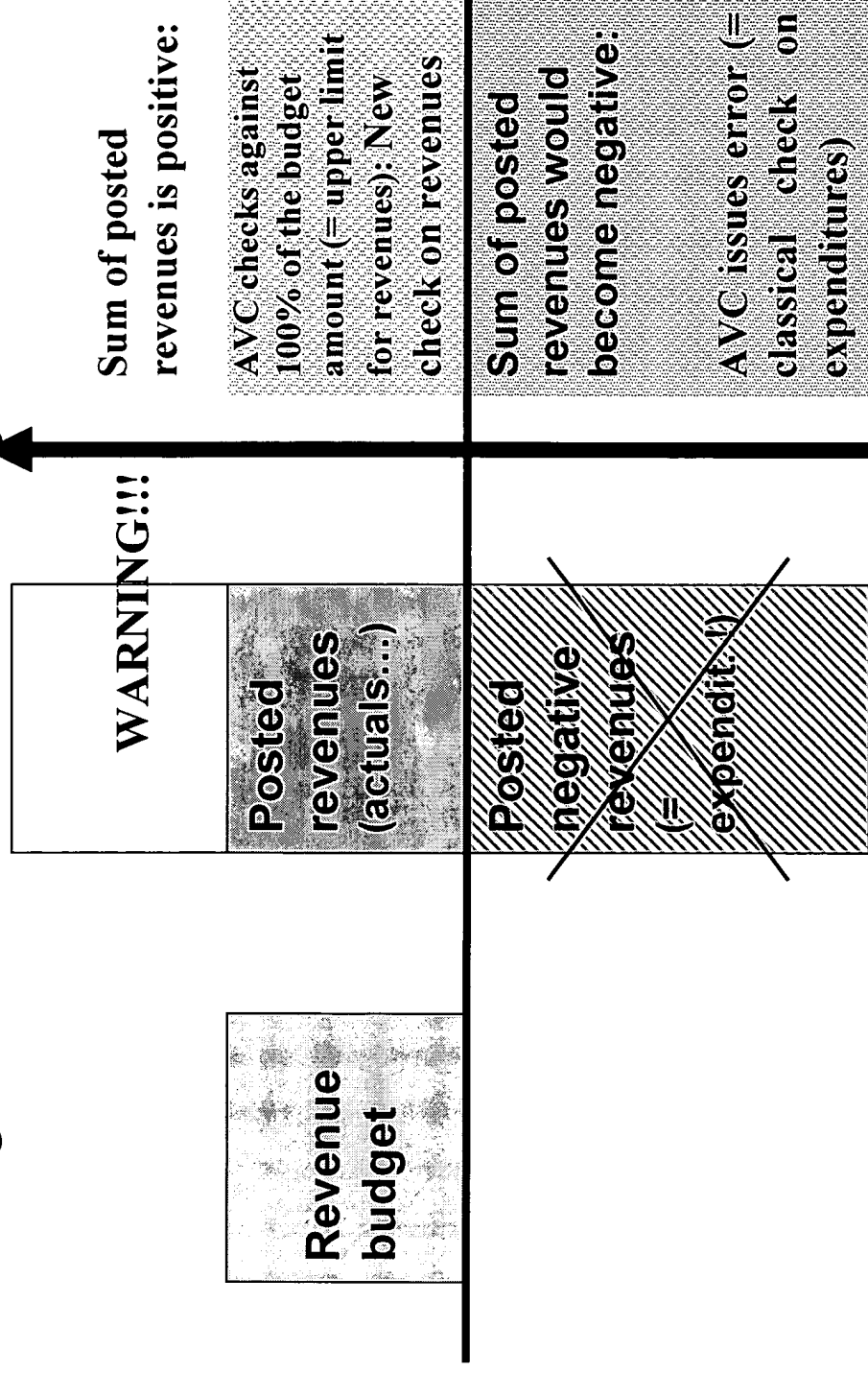


## AVC on revenues: *enhanced view (I)*

- ❑ *In addition and similar to limit expenditures, AVC will offer the possibility to limit revenues.*
- ❑ *Examples:*
  - ❑ Some administration is authorized to accept revenues until a certain upper limit → AVC issues an error, if this limit is exceeded for revenues (e.g. Reimbursable Customer Orders).
  - ❑ Another administration uses rules for Revenue Increasing the Budget (RIB), but likes to be informed, when collected revenues exceed some limit → AVC issues a warning in this case.

## AVC on revenues: *enhanced view (II)*

- Example: error when checking expenditures and warning, if revenues > revenue budget



## Overview of the design

- ❑ Enhancement of the AVC check logic: two *ceiling types* that are simultaneously available for each control ledger ('single ledger approach')
- ❑ Consequences:
  - ❑ Tolerance profiles with separate tolerances for '*ceiling for expenditures*' and '*ceiling for revenues*'
  - ❑ Enhancement of the enqueue logic for shared locks
  - ❑ New treatment and data storage of preposted budget values
    - reconstruct AVC necessary after upgrade
    - changes for AVC reporting
    - New DB field, but no XPRA necessary !

### Why 'single ledger approach'?

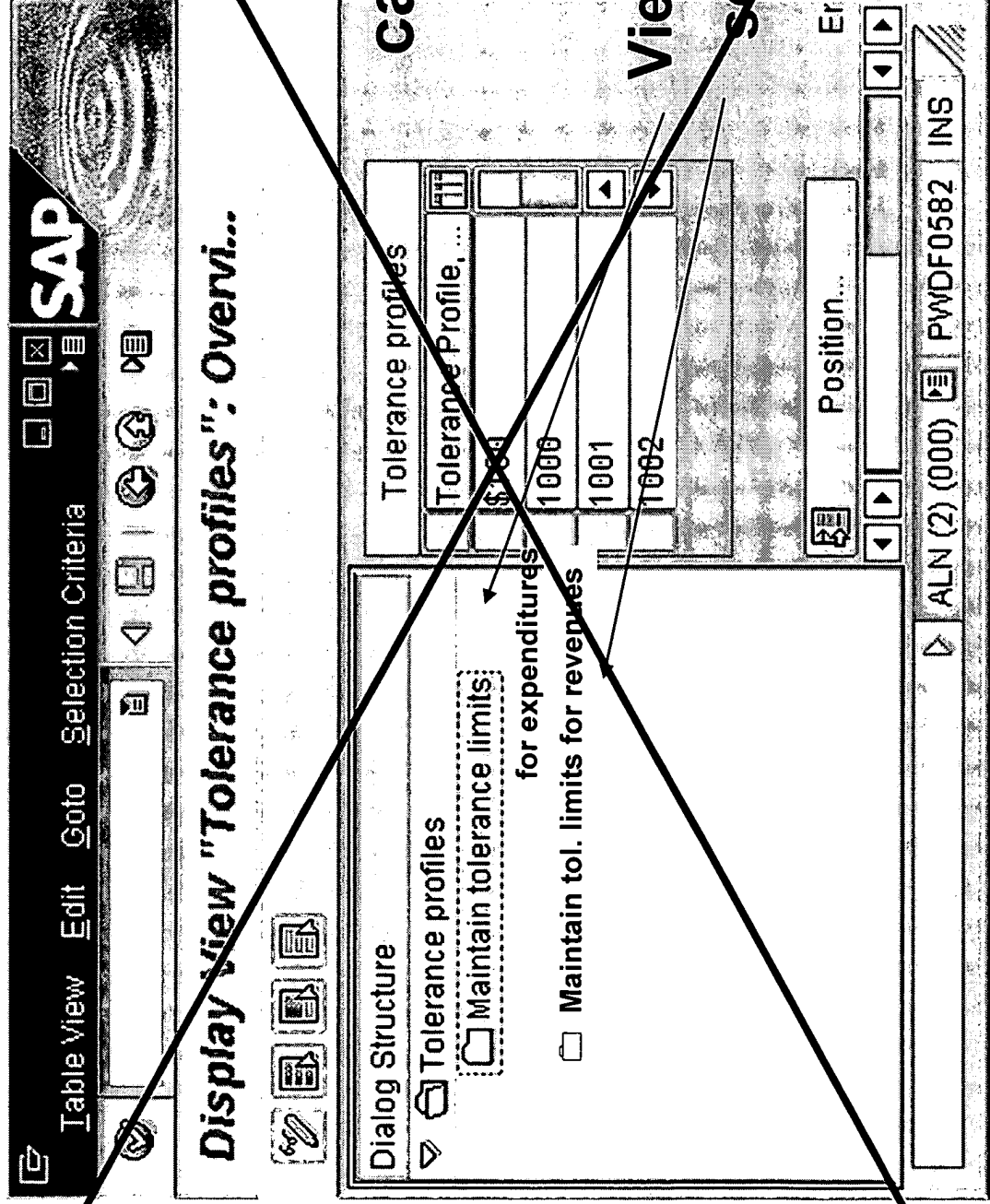
- Advantages:
  - Ceiling types are easily customizable via tolerance profiles and their assignment to control objects
  - AVC reporting on (preposted) budget data becomes more transparent
- Alternative solution: separate control ledgers with inversed check logic (*only for ceiling for revenues*)
- But:
  - The number of control ledger has to be doubled for this solution, if customers decide to use checks on revenues
  - Separate check ledgers basically contain data with the same amounts (*only the sign is inversed*)



### New Customizing of tolerance profiles (I)

- ❑ New key field Ceiling Type for table BUAVCTOLASS that allows for distinguishing between ceilings for expenditures and for revenues.
- ❑ Enhancement of the view-cluster for maintaining tolerance profiles: ~~separate view for ceiling for revenues?~~ No, better no separate maintenance. But separate view-cluster required for applications that do not like to use this new ceiling type.

## New Customizing of tolerance profiles (II)



# New Customizing of tolerance profiles (III)

# key field

### Activation of checks on revenues (I)

- ☐ In principle, the use (or the deactivation) of the ceiling type “revenues” (or also “expenditures”) is always possible via the assignment of special tolerance profiles per control object. OK
- ☐ *But:* Definition of a derivation strategy is needed, which exploits the commitment item category of the control object. OK
- ☐ *And:* Default settings required, if the tolerance profile does not provide any tolerance limits (*for none of the two ceiling types*):
  - *Proposal:* Error for usage rates > 0% for checks on expenditures ~~AND also for checks on revenues (?!?)~~

**No !**

## Activation of checks on revenues (II)

- ☐ ~~New idea: Separately activate checks on revenues in the view  
V\_FMAVCLDGRAC 'Maintain activation status for AVG ledger':  
→ 2 additional attributes:
  - Checks on expenditures (default = checks on all commitment items)
  - Checks on revenues (default = no checks)~~
- ☐ ~~For each new attribute (*up to*) **four** different values are offered:  
*no checks, only checks on expenditure items (= control objects with commitment item of category '3'), only checks on revenue items, checks on all commitment items* (including value SPACE)~~
- ☐ ~~In any case, all the posting and budget data should be updated to the control ledger, if set active.~~

**cancelled**

# Availability Control on Revenues

## Activation of checks on revenues (III)

**SAP**

Table View Edit Goto Selection Criteria Utilities System Help

**Display View "Maintain activation status for availability ledger, ..."**

FM Area TS01 FM area Thomas S.

Maintain activation status for availability ledger, FM

Ava...	Ledger name	Fro...	Activation status of...	Check on expenditures	Check on revenues
9H	FM PB availability control	2001	Ledger not acti...	On all commitment items	No checks
9H	FM PB availability control	2002	Active with us...	On all commitment items	Only on rev. items

Perhaps restriction to: on all cmmt items or only on expend. items

Entry 1 of 7

Position...

ALN (1) (000) PWDF0582 INS

**cancelled**

### New handling of shared locks

- ☐ For ceiling type “expenditures”, only amounts that reduce the available amount are considered for shared locks in order to reserve new consumptions against concurrent users.
- ☐ For ceiling type “revenues”, the amounts with opposite signs have to be considered.
- ☐ → From now on, all amounts  $\neq 0$  have to be considered for enqueueing.
- ☐ Uncritical enhancement of ABAP code and of AVC lock objects

### Enhancement of message handling

- ☐ In order to clarify, which checking type (or scope) resulted in an AVC message, a new set of messages should be created.
- ☐ Messages from both checking types are treated separately and in an independent manner.
- ☐ Uncritical enhancement of ABAP code...



### Treatment of preposted budget values (I)

- ❑ For ceiling type “expenditures” (= classical AVC), only preposted budget values that reduce the available amount are considered as relevant for AVC in order to allow for UNDOing preposted documents in any case.
- ❑ For ceiling type “revenues”, preposted budget values with opposite sign have to be considered.
- ❑ → From now on, all preposted budget values have to be considered as relevant for AVC.
- ❑ → AVC DB data must also allow to distinguish between ‘posted’ and ‘preposted-reducing’ and ‘preposted-increasing’.

### Treatment of preposted budget values (II)

- ❑ ~~Proposal: Use of the field ALLOCTYPE → two additional values (e.g. PRES and PEAR).~~  
Better use a new DB field (WFSTATE) for that
- ❑ Consequences for reporting: new 'key figures' necessary for AVC data:
  - Only posted AVC data
  - AVC data including preposted data for ceiling type "expenditures"
  - AVC data including preposted data for ceiling type "revenues"
- ❑ Consequences for customers, who upgrade to EA-PS 2.0: They have to run the 'Reconstruct AVC ledger' program after the upgrade, only if they like to use the new ceiling type.